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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/803,380 03/18/2004		Sung-Hune Yoo	51898/DBP/Y35 5503		
23363	7590	12/21/2005		EXAMINER	
CHRISTIE PO BOX 700	•	R & HALE, LLP	MACCHIAROLO, PETER J		
PASADENA		109-7068	ART UNIT	PAPER NUMBER	
	•			2879	

DATE MAILED: 12/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

:		Application No.	Applicant(s)				
		10/803,380	YOO, SUNG-HUNE				
i !	Office Action Summary	Examiner	Art Unit				
		Peter J. Macchiarolo	2879				
Period fo	The MAILING DATE of this communication ap r Reply	ppears on the cover sheet with the	he correspondence address				
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD FOR REPLEHEVER IS LONGER, FROM THE MAILING Issions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statuely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT .136(a). In no event, however, may a reply to divill apply and will expire SIX (6) MONTHS te, cause the application to become ABAND	TON. be timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on 09 I	December 2005.	\				
·	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>9-15</u> is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	⊠ _i Claim(s) <u>1-8</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/	or election requirement.					
Applicati	on Papers						
9)⊠ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	inder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 							
Attachmen 1) Notic 2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	4) Interview Summ Paper No(s)/Ma	nary (PTO-413)				

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DETAILED ACTION

Election/Restriction

Applicant's election of group I in the reply filed on 12/09/2005 is acknowledged.

Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse and are withdrawn from further consideration pursuant to 37 CFR 1.142(b) and MPEP § 818.03(a).

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: the terms "first electrode" and "second electrode" are not supported by the instant specification. The Examiner gleans from the disclosure that the first and second electrodes refer to the sustain and scan electrodes.

Furthermore, the specification and drawings fail to disclose that the sustain and scan electrodes are different widths.

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Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the <u>plurality</u> of second electrodes formed between two adjacent first electrodes must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. The Examiner notes that only <u>one</u> second electrode is formed between two first electrodes.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The Examiner further notes that the only figure directed to the size relationships and structural details of the electrodes (figure 3) is extremely difficult to decipher. Consequently the size relationships of the scan and sustain electrodes, and of the protrusions are very difficult to

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make sense of. Applicant is encouraged to amend the figure for proper understanding of the

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subject matter sought to be patented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis

for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 are rejected under 35 U.S.C. 102(b) as being anticipated by Hirose

(USPGPUB 20010050533; "Hirose").

Regarding claim 1, Hirose discloses in figures 1 and 7 a plasma display panel apparatus

comprising: a first substrate (1); a plurality of first electrodes (2bB) provided in a row direction

on the first substrate; and a plurality of second electrodes (3bB) provided in the row direction on

the first substrate, formed between two adjacent first electrodes, wherein: the first electrode and

the second electrode face each other with a predetermined electrode gap therebetween (G2); a

sustain discharge is generated by a voltage potential difference between the first electrode and

the second electrode; and an area of the first electrode is larger than that of the second electrode.

Claims 1, 2, and 5-8 are rejected under 35 U.S.C. 102(b) as being anticipated by

Sano (USPN 20020024303; "Sano").

Regarding claim 1, Sano discloses in figures 32 and 39 a plasma display panel apparatus

comprising: a first substrate (11); a plurality of first electrodes (57) provided in a row direction

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on the first substrate; and a plurality of second electrodes (13e) provided in the row direction on the first substrate, formed between two adjacent first electrodes, wherein: the first electrode and the second electrode face each other with a predetermined electrode gap therebetween; a sustain discharge is generated by a voltage potential difference between the first electrode and the second electrode; and an area of the first electrode is larger than that of the second electrode.

Regarding claim 2, Sano discloses in figure 39 the first electrode has a first protrusion (13a) formed in a column direction; the second electrode has a second protrusion (13b) formed in the column direction; the first protrusion and the second protrusion face each other with the predetermined protrusion gap therebetween; and an area of the first protrusion is larger than that of the second protrusion.

Regarding claim 5, Sano discloses in figure 32 the second substrate facing the first substrate with a substrate gap therebetween; and a plurality of third electrodes (14) provided in the column direction on the second substrate, wherein an address discharge is generated by a potential difference between the third electrode and the first electrode.

Regarding claims 6-8, the Examiner notes that the limitations therein, are intended use type limitations. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of

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performing the intended use, then it meets the claim. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sano in view of Hirose.

Regarding claims 3 and 4, Sano is silent to a column or row directional length of the first protrusion is longer than a column or row directional length of the second protrusion.

However, Sano teaches in figure 7 this configuration allows for more efficient illumination of the phosphor.

Therefore, in view of the above discussion, it would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Sano with the column or row directional length of the first protrusion is longer than a column or row directional length of the second protrusion.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter J Macchiarolo whose telephone number is (571) 272-2375.

The examiner can normally be reached on 8:30 - 5:00, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (571) 272-2475. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JOSEPH WILLIAMS
PRIMARY EXAMINER